	Application No.	Applicant(s)	
Notice of Allowability	10/625,480	CHEN ET AL.	
	Examiner	Art Unit	
	BUILC T DANC	2010	
	PHUC T DANG	2818	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate comm RIGHTS. This application is s	n this application. If not included unication will be mailed in due cou	ırse. THIS
1. $igspace$ This communication is responsive to <u>RCE filed on April</u>	<u>1, 2005</u> .		
2. X The allowed claim(s) is/are 4-7 (renumbered as in new of	claims 1-4).		
3. \boxtimes The drawings filed on <u>22 July 2003</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ave been received. ave been received in Application	on No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATI noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requir	ements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g			ICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") m (a) ☐ including changes required by the Notice of Draftsp 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examin- Paper No./Mail Date Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such i 7. ☐ DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN	erson's Patent Drawing Review er's Amendment / Comment o R 1.84(c)) should be written on to n the header according to 37 Cl posit of BIOLOGICAL MAT	r in the Office action of he drawings in the front (not the ba FR 1.121(d). ERIAL must be submitted. Not	
Attachment(s) 1 ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application (PTO-1	52)
2. Notice of Draftperson's Patent Drawing Review (PTO-94)		lummary (PTO-413), /Mail Date	
 3. Information Disclosure Statements (PTO-1449 or PTO/SI Paper No./Mail Date <u>040105</u> 4. Examiner's Comment Regarding Requirement for Depos of Biological Material 	B/08), 7. ☐ Examiner's	Amendment/Comment Statement of Reasons for Allowa	ınce
PHU	C T DANG	Lang hur	
PRIN	MARY EXAMINER		

Application/Control Number: 10/625,480 Page 2

Art Unit: 2818

DETAILED ACTION

Examiner's Statement of Reasons for Allowance

- 1. Claims 4-7 are allowed.
 - Claims 4-7 are renumbered as in new claims 1-4.
- 2. The following is an examiner's statement of reasons for allowance:

None of the prior art teaches a method of processing a substrate having a low dielectric material layer formed thereover, comprising the step of depositing a titanium nitride layer over the low k dielectric material layer by providing a titanium-containing compound and a nitrogen-containing compound in combination with the other steps found in the independent method claim 4.

None of the prior art teaches a method of processing a substrate having a low dielectric material layer formed thereover, comprising the step of depositing a titanium nitride layer over the low k dielectric material layer by providing a titanium-containing compound selected from the group consisting of tetrakisdimethylamino titanium (TDMAT) and tetrakisdiethylamino titanium (TDEAT) and by providing a nitrogen-containing compound comprising ammonia in combination with the other steps found in the independent method claim 7.

- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is (571) 272-1776. The examiner can normally be reached on 8:00 am-5:00 pm.
- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

 David C. Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization

Art Unit: 2818

where this application or proceeding is assigned are 703-872-9306 for regular communications and for After Final communications.

5. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Langhur

20

Phuc T. Dang

Primary Examiner

Art Unit 2818